

What is claimed is:

1. A vented speaker system, comprising in combination:
a rectangular speaker box having a top wall and an opposing bottom wall, a front wall and an opposing back wall, and a pair of opposing sidewalls;
an vent formed in the front wall;
a speaker positioned within the speaker box and mounted to the front wall; and
at least three tubular segments disposed within the speaker box;
wherein the first segment is fluidically connected to the vent;
wherein the first and third segments are oriented substantially parallel to each other;
wherein the second segment is fluidically connected between the first and third segments; and
wherein the second segment intersects the first segment at a non-zero angle.
2. The vented speaker system of claim 1 wherein the speaker box includes an interior corner-to-corner diagonal bisector that defines a maximum interior linear dimension and wherein the maximum interior linear dimension is less than the combined lengths of the at least three tubular segments.
3. The vented speaker system of claim 1 wherein the first segment intersects the speaker box at an angle of between about 35 and about 55 degrees.
4. The vented speaker system of claim 1 wherein the vent provides fluidic communication between the interior of the box and the exterior of the box.

5. A vented speaker, comprising in combination:
an enclosure defining a rectangular parallelepiped and a maximum enclosed linear dimension;
a vent aperture formed in the parallelepiped; and
a folded vent tube extending from the aperture into the enclosure and having a first end and a second end;
wherein the first end is fluidically connected to the vent aperture;
wherein folded vent tube has an effective length greater than that of a line extending between the first and the second end; and
wherein the effective vent tube length is greater than the maximum enclosed linear dimension.

6. The vented speaker of claim 5 wherein the folded vent tube has a zigzag shape defined by a pair of non-collinear parallel segments connected in fluidic communication by a connecting segment; wherein each respective segment defines a respective segment length; and wherein the sum total of respective segment lengths further defines a vent tube length.

7. The vented speaker of claim 5 wherein the folded vent tube includes a plurality of helically wound air conduits

8. The vented speaker of claim 5 further comprising a sound generator mounted within the enclosure and spaced from the vent tube.

9. The vented speaker of claim 5 wherein the vent tube defines a fluidic conduit into the enclosure.

10. The vented speaker of claim 5 further comprising a plurality of sound generators mounted within the enclosure, wherein each respective sound generator is spaced from the remaining acoustic generators and from the vent tube.

11. The vented speaker of claim 5 wherein the folded vent tube includes a flange operationally connected to the second end of the vent tube.

12. The vented speaker of claim 5 wherein the vent tube intersects the vent aperture at an angle of between about 35 and about 55 degrees.

13. The vented speaker of claim 5 wherein the vent tube intersects the enclosure exactly once.

14. A speaker cabinet, comprising in combination:
a generally rectangular parallelepiped housing;
a speaker mounted within the housing;
a vent port formed through the housing; and
a Z-shaped vent tube operationally connected to the vent port and positioned within the housing.

15. The speaker cabinet of claim 14 wherein the speaker is spaced from the Z-shaped vent tube.

16. The speaker cabinet of claim 14 wherein the Z-shaped vent tube intersects the housing at an angle between about 35 and about 55 degrees.

17. The speaker cabinet of claim 14 wherein the Z-shaped vent tube further comprises a flange connected thereto, wherein the flange is substantially spaced from the housing.

18. The speaker cabinet of claim 14 wherein the Z-shaped vent tube is a conduit for fluidic communication between the interior and the exterior of the housing.

19. A method for increasing the sound output of a vented speaker, comprising the steps of:

a) mounting a speaker within a generally rectangular parallelepiped enclosure;

b) forming a ventilation aperture through the enclosure; and

c) extending a folded tube into the enclosure from the aperture;

wherein the interior of the enclosure fluidically communicates with the exterior of the enclosure through the folded tube.

20. The method of claim 19 wherein the folded tube is Z-shaped; wherein the folded tube comprises three segments; wherein the first and second segments are oriented parallel to one another; wherein the first and third segments are oriented non-parallel to one another; and wherein the third segment is connected between the first and second segments.

21. The method of claim 19 wherein the folded tube further comprises a flange operationally connected to the folded tube and wherein the flange does not intersect the generally rectangular parallelepiped enclosure.

22. The method of claim 20 wherein the folded tube further comprises a flange operationally connected to the folded tube and wherein the flange does not intersect the generally rectangular parallelepiped enclosure.

23. The method of claim 19 wherein the folded tube further comprises a plurality of helically wound air conduits.

24. A speaker cabinet, comprising in combination:
a generally rectangular parallelepiped housing;
a speaker mounted within the housing;
a vent port formed through the housing; and
a folded vent tube operationally connected to the vent port and positioned within the housing.

25. A speaker cabinet, comprising in combination:
a generally rectangular parallelepiped housing defining an interior volume;
a speaker mounted within the housing;
a vent port formed through the housing; and
a plurality of helically wound air conduits fluidically connecting the vent port to the interior volume.

26. An enclosure defining a rectangular parallelepiped and a maximum enclosed linear dimension;

an vent aperture formed in the parallelepiped; and

a folded vent tube extending from the aperture into the enclosure and having a first end and a second end;

wherein the first end is fluidically connected to the vent aperture;

wherein folded vent tube has an effective length greater than that of a line extending between the first and the second end; and

wherein the effective vent tube length is greater than the maximum enclosed linear dimension.

27. An enclosure defining an a rectangular parallelepiped and a maximum enclosed linear dimension;

a vent aperture formed through the parallelepiped;

a vent tube extending through the aperture into the enclosure and having a first and a second end;

wherein the vent tube further comprises a plurality of helically wound air conduits;

wherein the first end is fluidically connected to the vent aperture;

wherein the folded vent tube has an effective length greater than that of a line extending between the first and second end; and

wherein the effective length of the vent tube is greater than the maximum enclosed linear dimension.

28. The enclosure of claim 27 wherein the vent tube further comprises 2 helically wound air conduits.

29. The enclosure of claim 27 wherein the vent tube further comprises three air conduits.

30. The enclosure of claim 27 wherein the vent tube further comprises four air conduits.

31. The enclosure of claim 27 wherein the vent tube further comprises eight air conduits.